



APPENDIX A

RADIOLOGICAL ASSESSMENT FOR

DOE ID NO. GJ-44367-CC (PHASE F)

DENVER & RIO GRANDE WESTERN RAILROAD

Revised: August 23, 1991

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EXECUTIVE SUMMARY

1.0 INTRODUCTION

This property is Phase F of DOE ID number GJ-44367-CC (Denver & Rio Grande Western Railroad) located west of 7th Street.

Following procedures described in the *Field Assessments Procedures Manual*, data were collected on this property and assessed to estimate the location of residual radioactive material in excess of the Environmental Protection Agency (EPA) 'Standards for Remedial Action at Inactive Uranium Processing Sites' (40 CFR 192).

This property has been included for remedial action by the Department of Energy on the basis of Oak Ridge National Laboratory's identification of excess radium-226 concentration in the land area.

2.0 GAMMA EXPOSURE-RATE SURVEYS

2.1 Exterior

The area backgrounds are 15 $\mu\text{R/h}$ and 3.7 pCi/g . The high exterior gamma exposure rate is 615 $\mu\text{R/h}$. Areas of elevated exterior gamma exposure rates are shown in Figure 1, and in Figures 2a through 2f.

2.2 Interior

Not applicable; no habitable structures are included with this property.

3.0 RADON/RADON DECAY-PRODUCT CONCENTRATION (RDC)

Not applicable; no habitable structures are included with this property.

4.0 EXTENT OF CONTAMINATION

4.1 Exterior

Figures 2a through 2f show the locations and types of explorations and radium measurements made; the related radium data are listed in Tables 1a through 1f. The maximum radium concentration in the contaminated area is 2,338.6 pCi/g .

Figures 3a through 3f show the estimated boundaries and depths of exterior contamination. The deposits containing identified residual radioactive materials are characterized as follows:

In the concrete aggregate of the slab, beneath the asphalt, in the bare soil areas, and in the roadbase/gravel fill areas.

4.2 Interior

Not applicable; no habitable structures are included with this property.

5.0 REMEDIAL ACTION RECOMMENDATIONS

5.1 Exterior

Exterior Deposits A through BH (Figures 3a through 3f) should be removed and the appropriate cover material replaced.

5.2 Interior

Not applicable; no habitable structures are included with this property.

6.0 COMMINGLED WASTE INVESTIGATION

A commingled waste investigation was performed for Phase F at this property; see the Appendix B for additional information.

/pr

Revised: August 23, 1991

TEAM LEADER NOTES

DOE ID NUMBER: GJ-44367-CC (Phase F)

SURVEY DATE: October 12, 1990

TEAM LEADER: Steven G. Baker

Owner: Denver & Rio Grande Western Railroad
Contact: Dennis Fordham (Train Master)

Telephone Number: (303) 248-4225

Underground utility lines located during the assessment are shown on the drawings.

Contamination involving Deposits A, B, and G (Figure 3a) lies beneath the 1-inch-thick to 3-inch-thick asphalt. Contamination involving the 3-inch-thick concrete in Deposit A does not extend beneath it.

A concrete slab located southwest of Building 2 (Deposit B) is partially buried beneath approximately 4 inches of contaminated soil. The concrete itself is not contaminated, nor does contamination extend beneath it.

A contaminated piece of pipe was discovered lying on the concrete slab between Deposit AA and Deposit G (Figure 3a). This pipe exhibited gamma readings up to 65 $\mu\text{R/h}$ (Figure 2a); the pipe was not removed from the property.

The area noted as 'No-Access' involves stacked pallets of cinder blocks that are beginning to fall over. Due to the unsafe condition of these stacks, a gamma scan was not performed between the stacks; however, the gamma scan that was performed around the stacks and on the north side of the fence detected no elevated gamma readings.

The foundation of the one-story metal building (Figures 3c and 3d) was investigated for contaminated concrete. Data collected indicate no contamination involving the concrete

TEAM LEADER NOTES

GJ-44367-CC (Phase F)

Page 2 of 2

foundation. Tailings from adjacent exterior deposits (Deposit P [Figure 3c], Deposit Z [Figure 3d], and Deposits AB and AC [Figure 3d]) do not extend beneath the footing of the metal building.

Deposits O and Q (Figure 3c), and Deposits Y through AL (Figures 3d through 3e) involve the salvage yard of Lewis Iron and Steel. These areas all have miscellaneous salvaged metal scrap lying in the deposits.

As per the Denver & Rio Grande Western Railroad and Chem-Nuclear Geotech requirements, no subsurface investigations were performed within 10 feet of any railroad tracks.

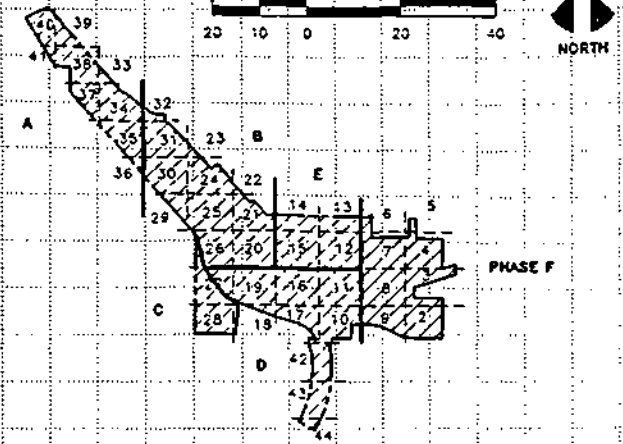
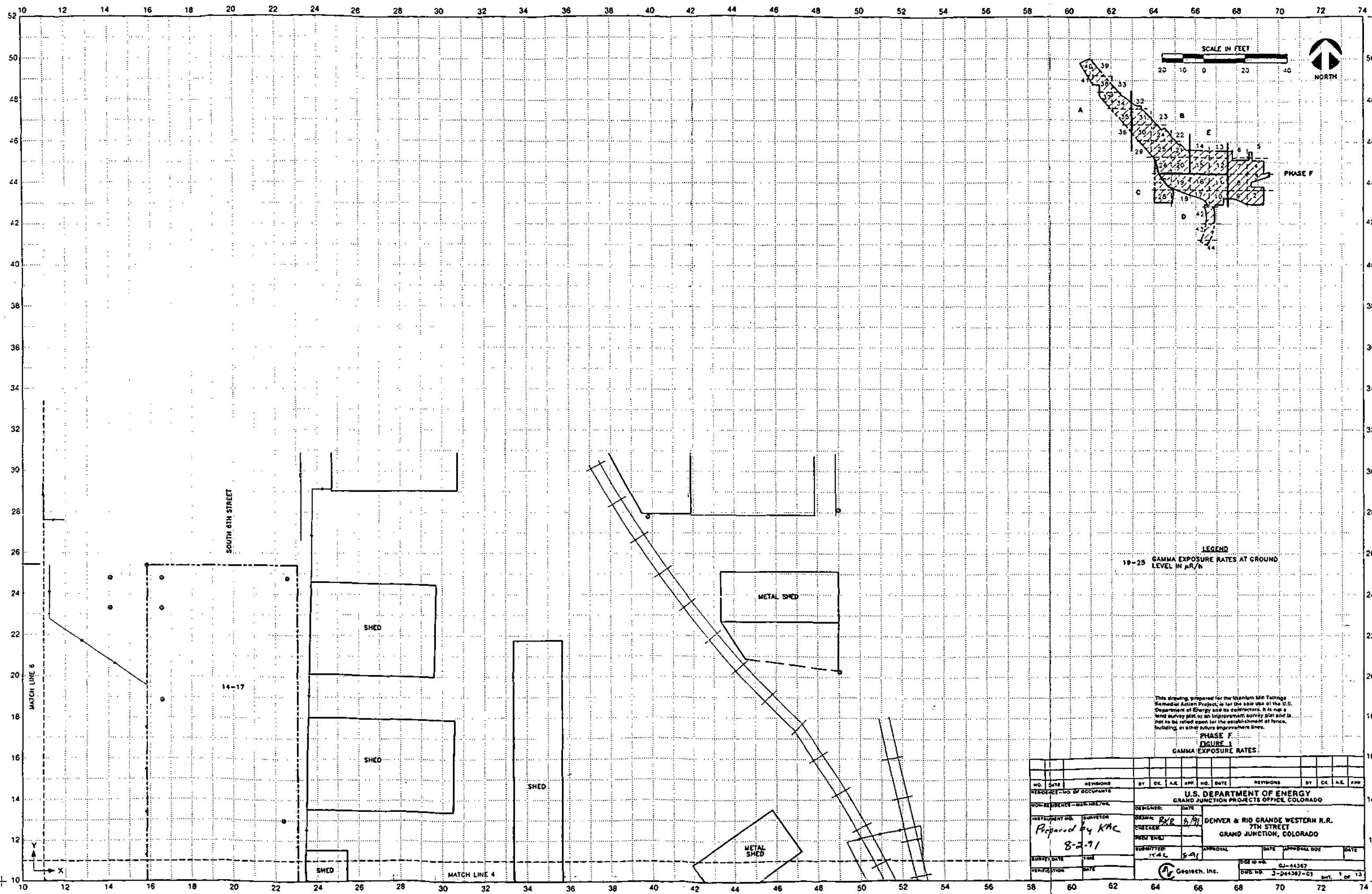
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Radium Concentrations at Exterior Locations
Denver & Rio Grande Western Railroad (Phase F)
West of 7th Street

DOE ID #GJ-44367-CC

Page 1 of 33

				Ra-226 (pCi/g)		RDC	Alpha	Comments
Loc #	Grid Location	Depth (in.)	Meas. Type	Non-Deconv.	Deconv.	Working Level	dpm/100 cm ²	
1	111310	00	DS	4.7				Soil
		03	TC	4.2	4.2			
		06	TC	4.3	4.1			DC = 6 inches
		09	TC	4.5	4.9			
		12	TC	4.5	4.3			
		15	TC	4.6	4.4			
		18	TC	4.8	5.2			
		21	TC	4.8	4.6			
		24	TC	4.9	5.1			
		27	TC	4.9	5.1			
		30	TC	4.8	4.6			
		33	TC	4.8	4.8			
		36	TC	4.8	4.8			
2	111400	00-06	OC	4.1				NAG-134
		00	DS	3.0				Soil
		03	TC	4.2	4.2			
		06	TC	4.7	5.4			DC = 0 inches
		09	TC	4.8	5.0			
		12	TC	4.8	5.2			
		15	TC	4.6	4.4			
		18	TC	4.5	4.3			
		21	TC	4.5	4.5			
		24	TC	4.5	4.7			
		27	TC	4.4	4.0			
		30	TC	4.5	4.7			
		33	TC	4.5	4.5			
3	120240	00-06	OC	3.9				NAG-039
		00	DS	4.7				Soil
		03	TC	3.7	3.7			
		06	TC	3.8	3.4			DC = 0 inches
		09	TC	4.1	4.3			
		12	TC	4.3	3.8			
		15	TC	4.8	5.5			
		18	TC	4.9	4.9			
		21	TC	5.0	5.4			
		24	TC	4.9	4.9			
		27	TC	4.8	4.6			
		30	TC	4.8	5.3			
		33	TC	4.5	4.5			
4	120380	00-06	GC	4.1				NAG-133
		00	DS	3.5				Soil

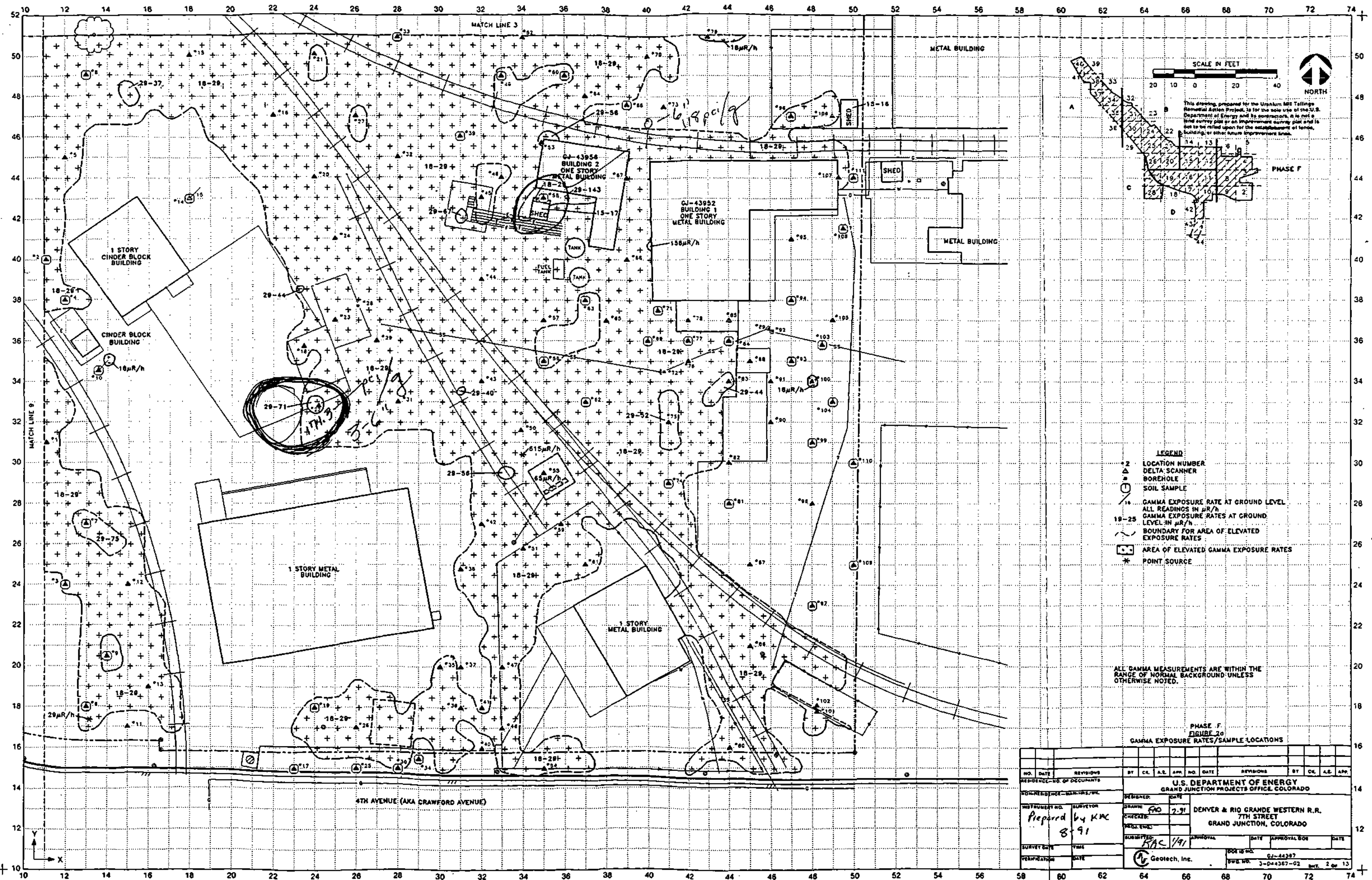


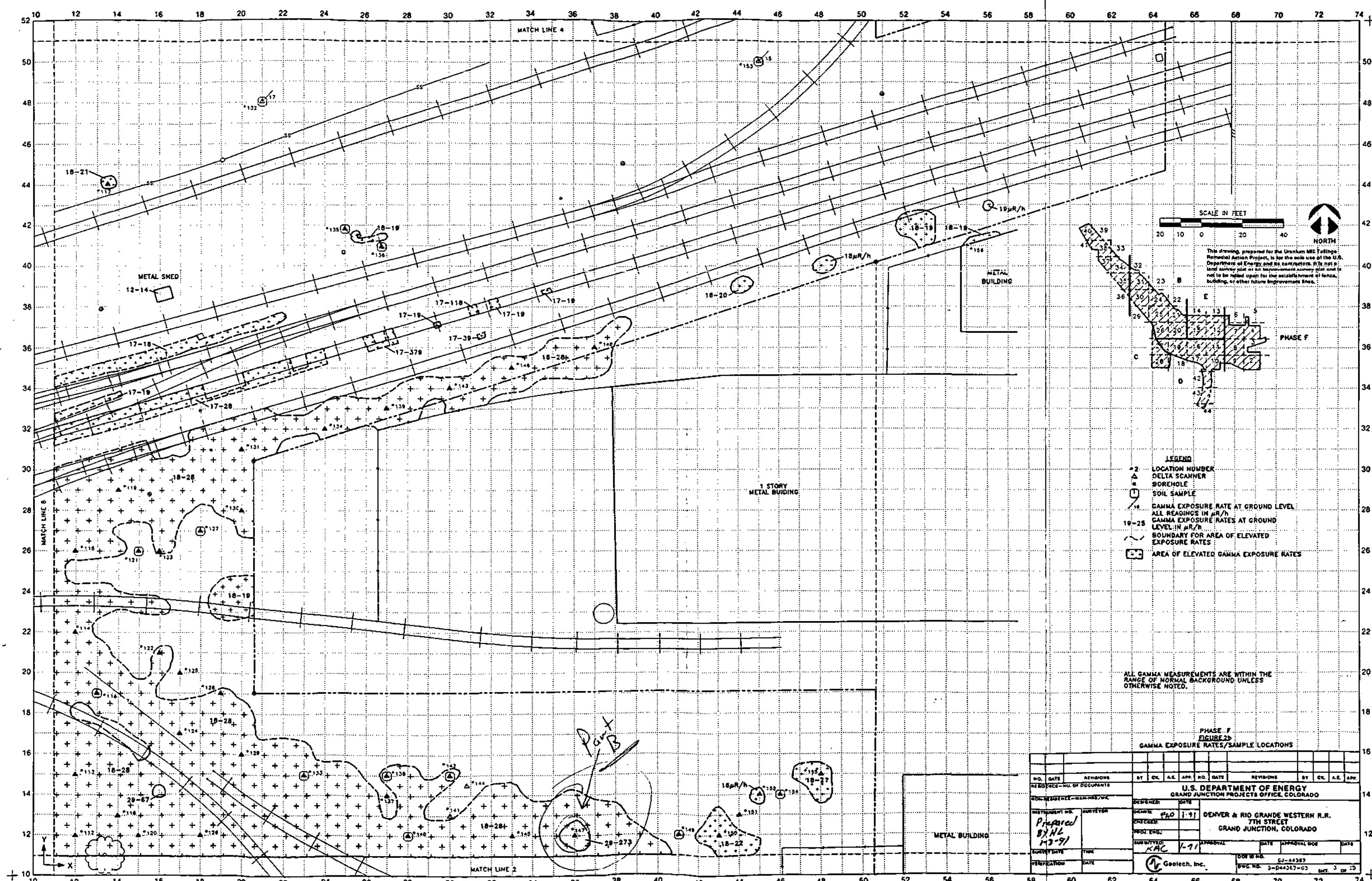
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19-25 GAMMA EXPOSURE RATES AT GROUND LEVEL IN $\mu R/h$

This drawing, prepared for the Uranium Mill Tailings Remedial Action Project, is for the sole use of the U.S. Department of Energy and its contractors. It is not a land survey plan; it is an interpretive survey plot and is not to be relied upon for the establishment of fence, building, or other future improvement lines.

PHASE F
GAMMA EXPOSURE RATES

NO.		DATE		REVISIONS		BY		DATE		REVISIONS		BY		DATE	
U.S. DEPARTMENT OF ENERGY GRAND JUNCTION PROJECTS OFFICE, COLORADO															
DENVER & RIO GRANDE WESTERN R.R. 7TH STREET GRAND JUNCTION, COLORADO															
INSTRUMENT NO.				SURVEYOR				DESIGNED:				DATE			
Prepared by KAC				8-2-71				RXP				8/71			
CHECKED:				PROJ. ENGR.				SUBMITTED:				DATE			
8/2/71				8/71				8/71				8/71			
SURVEY DATE				TIME				APPROVAL				DATE			
VERIFICATION				DATE				APPROVAL				DATE			
Geotech, Inc. 3-244367-01															





SCALE IN FEET
0 20 40
NORTH

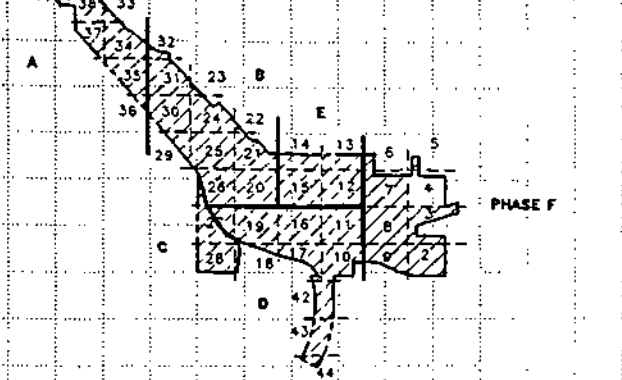
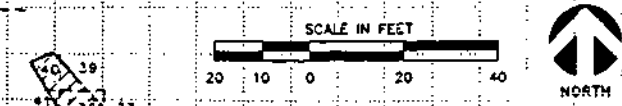
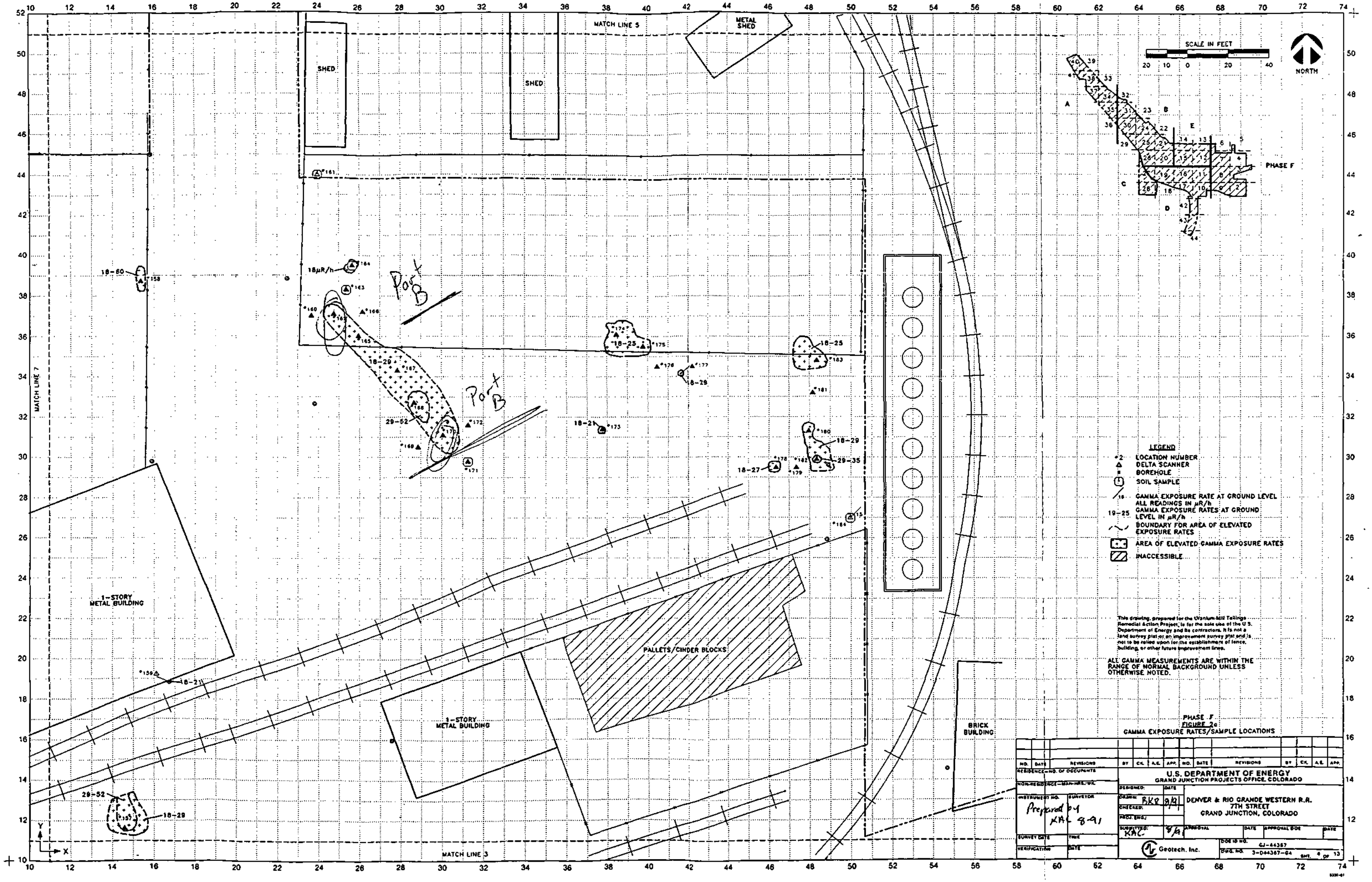
This drawing, prepared for the Uranium Mill Tailings Remedial Action Project, is for the sole use of the U.S. Department of Energy and its contractors. It is not a land survey plot or an improvement survey plot and is not to be relied upon for the establishment of fence, building, or other future improvement lines.

- LEGEND**
- 2 LOCATION NUMBER
 - Δ DELTA SCANNER
 - SOREHOLE
 - SOIL SAMPLE
 - 10 GAMMA EXPOSURE RATE AT GROUND LEVEL
 - ALL READINGS IN μR/h
 - 18-25 GAMMA EXPOSURE RATES AT GROUND LEVEL IN μR/h
 - 19-25 BOUNDARY FOR AREA OF ELEVATED EXPOSURE RATES
 - 19-25 AREA OF ELEVATED GAMMA EXPOSURE RATES

ALL GAMMA MEASUREMENTS ARE WITHIN THE RANGE OF NORMAL BACKGROUND UNLESS OTHERWISE NOTED.

PHASE F
FIGURE 2b
GAMMA EXPOSURE RATES/SAMPLE LOCATIONS

NO.	DATE	REVISIONS	BY	CK	A.E.	APP.	NO.	DATE	REVISIONS	BY	CK	A.E.	APP.
U.S. DEPARTMENT OF ENERGY GRAND JUNCTION PROJECTS OFFICE, COLORADO													
DENVER & RIO GRANDE WESTERN R.R. 7TH STREET GRAND JUNCTION, COLORADO													
INSTRUMENT NO. 8746		SURVEYOR H.S. 91		DATE 1-91		APPROVAL KAC		DATE 1-91		APPROVAL DOE		DATE	
PUBLICATION		DATE		TIME		DRAWING NO. GJ-44387		DOE NO. 3-044317-03		SHEET 3 OF 3		DATE	



- LEGEND**
- 2 LOCATION NUMBER
 - Δ DELTA SCANNER
 - BOREHOLE
 - SOIL SAMPLE
 - 16 GAMMA EXPOSURE RATE AT GROUND LEVEL
 - ALL READINGS IN μR/h
 - 18-25 GAMMA EXPOSURE RATES AT GROUND LEVEL IN μR/h
 - BOUNDARY FOR AREA OF ELEVATED EXPOSURE RATES
 - AREA OF ELEVATED GAMMA EXPOSURE RATES
 - ▨ INACCESSIBLE

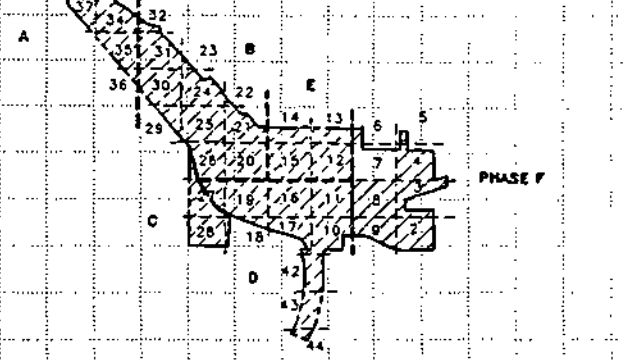
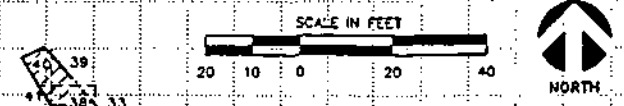
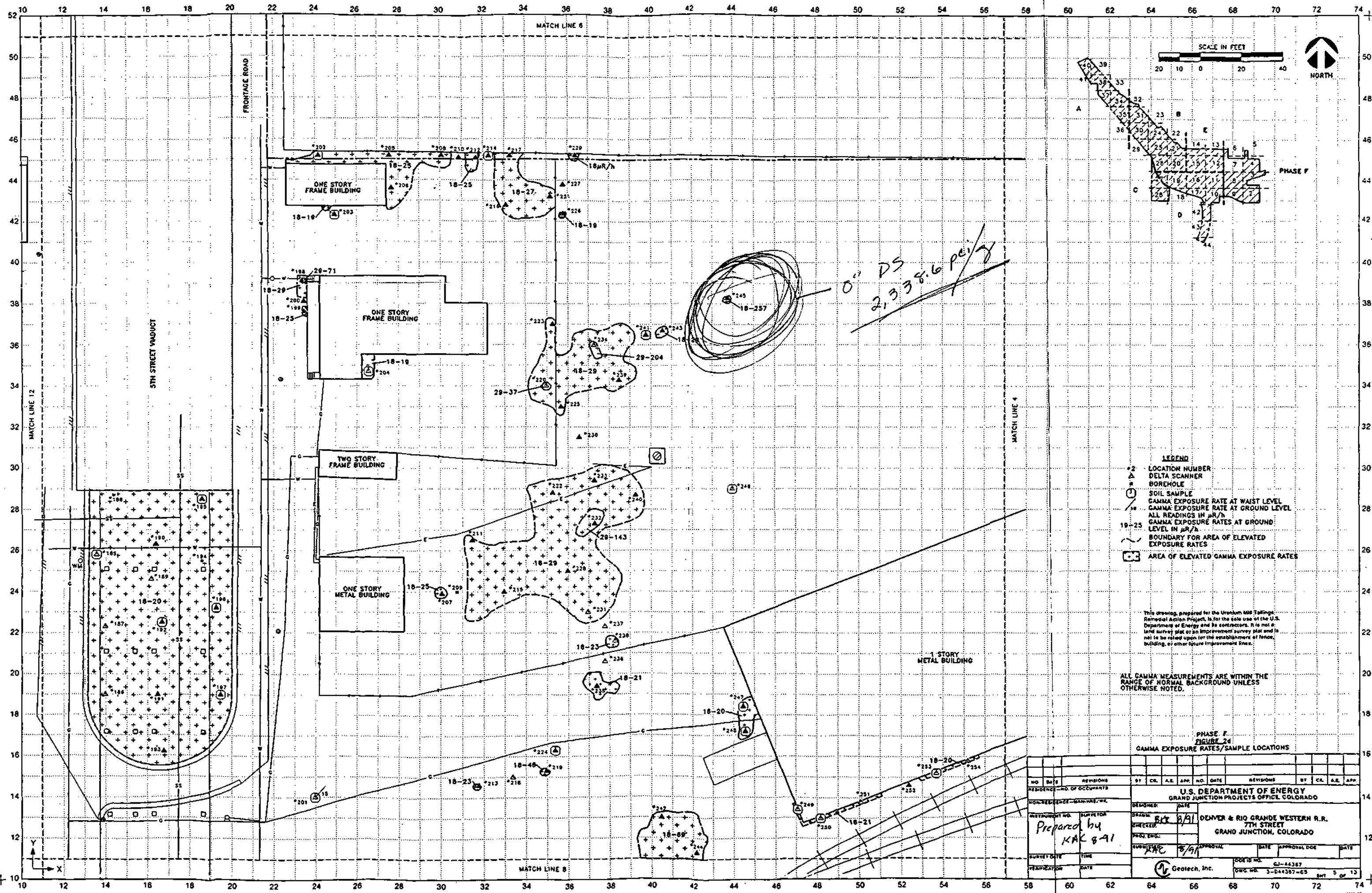
This drawing, prepared for the Wankam Hill Tailings Remedial Action Project, is for the sole use of the U.S. Department of Energy and its contractors. It is not a land survey plat or an improvement survey plat and is not to be relied upon for the establishment of fence, building, or other future improvement lines.

ALL GAMMA MEASUREMENTS ARE WITHIN THE RANGE OF NORMAL BACKGROUND UNLESS OTHERWISE NOTED.

PHASE F
FIGURE 2c
GAMMA EXPOSURE RATES/SAMPLE LOCATIONS

NO.	DATE	REVISIONS	BY	CH.	A.E.	APP.	NO.	DATE	REVISIONS	BY	CH.	A.E.	APP.
RESIDENCE—NO. OF OCCUPANTS													
NON-RESIDENCE—MAN-HEAVY													
INSTRUMENT NO. SURVEYOR													
DRAWN: BKR 9/21													
CHECKED: 9/21													
PREP. ENG: 9/21													
SUSPECTED: KAC 9/21													
SURVEY DATE TIME													
VERIFICATION DATE													
U.S. DEPARTMENT OF ENERGY GRAND JUNCTION PROJECTS OFFICE COLORADO													
DENVER & RIO GRANDE WESTERN R.R. 7TH STREET GRAND JUNCTION, COLORADO													
DOE IS NO. GJ-44387													
BWS NO. 3-D44387-04													
Geotech. Inc.													

Sheet 4 of 13



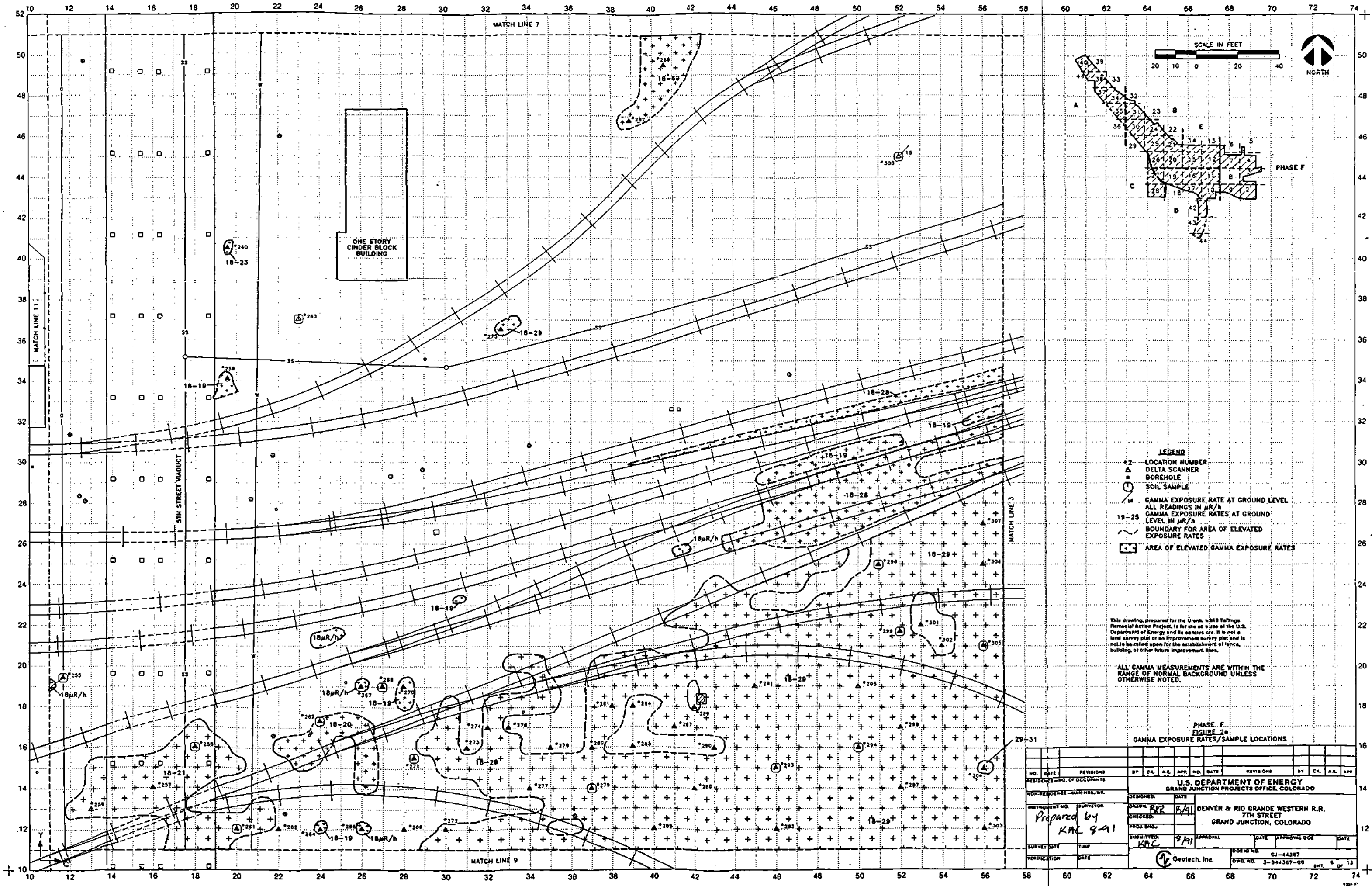
- LEGEND**
- 2 LOCATION NUMBER
 - Δ DELTA SCANNER
 - BOREHOLE
 - SOIL SAMPLE
 - 16 GAMMA EXPOSURE RATE AT WAIST LEVEL
 - 16 GAMMA EXPOSURE RATE AT GROUND LEVEL
 - ALL READINGS IN μR/h
 - 19-25 GAMMA EXPOSURE RATES AT GROUND LEVEL IN μR/h
 - BOUNDARY FOR AREA OF ELEVATED EXPOSURE RATES
 - AREA OF ELEVATED GAMMA EXPOSURE RATES

This drawing, prepared for the Uranium Mill Tailings Remedial Action Project, is for the sole use of the U.S. Department of Energy and its contractors. It is not a land survey plat or an improvement survey plat and is not to be relied upon for the establishment of fence, building, or other future improvement lines.

ALL GAMMA MEASUREMENTS ARE WITHIN THE RANGE OF NORMAL BACKGROUND UNLESS OTHERWISE NOTED.

PHASE F
FIGURE 24
GAMMA EXPOSURE RATES/SAMPLE LOCATIONS

NO. DATE		REVISIONS		BY	CL	A.E.	APP.	NO.	DATE	REVISIONS		BY	CL	A.E.	APP.
RESIDENCE - NO. OF OCCUPANTS															
NON-RESIDENCE - MANUFACTURE															
INSTRUMENT NO.		SURVEYOR		DRAWN		CHECKED		DATE		U.S. DEPARTMENT OF ENERGY GRAND JUNCTION PROJECTS OFFICE COLORADO					
SURVEY DATE		TIME		DATE		DATE		DATE		DENVER & RIO GRANDE WESTERN R.R. 7TH STREET GRAND JUNCTION, COLORADO					
PREPARED BY		DATE		APPROVAL		DATE		DATE		Geotech, Inc.					
DATE		DATE		DATE		DATE		DATE		DOE IS NO. GJ-44387 OWG NO. 3-044387-65					



- LEGEND**
- LOCATION NUMBER
 - Δ DELTA SCANNER
 - BOREHOLE
 - SOIL SAMPLE
 - 18 GAMMA EXPOSURE RATE AT GROUND LEVEL
ALL READINGS IN μR/h
 - 19-25 GAMMA EXPOSURE RATES AT GROUND LEVEL IN μR/h
 - BOUNDARY FOR AREA OF ELEVATED EXPOSURE RATES
 - AREA OF ELEVATED GAMMA EXPOSURE RATES

This drawing, prepared for the Grand Junction Tailings Remedial Action Project, is for the use of the U.S. Department of Energy and its contractors. It is not a land survey plot or an improved survey plot and is not to be relied upon for the establishment of fence, building, or other future improvement lines.

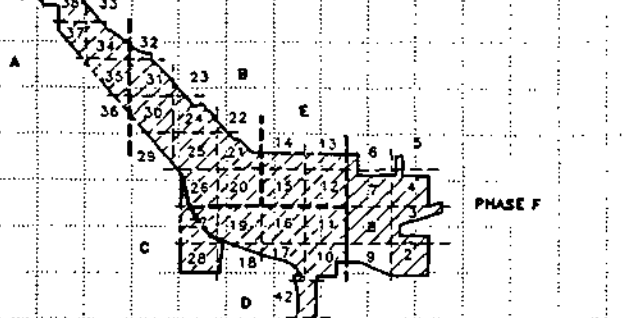
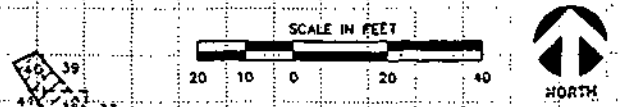
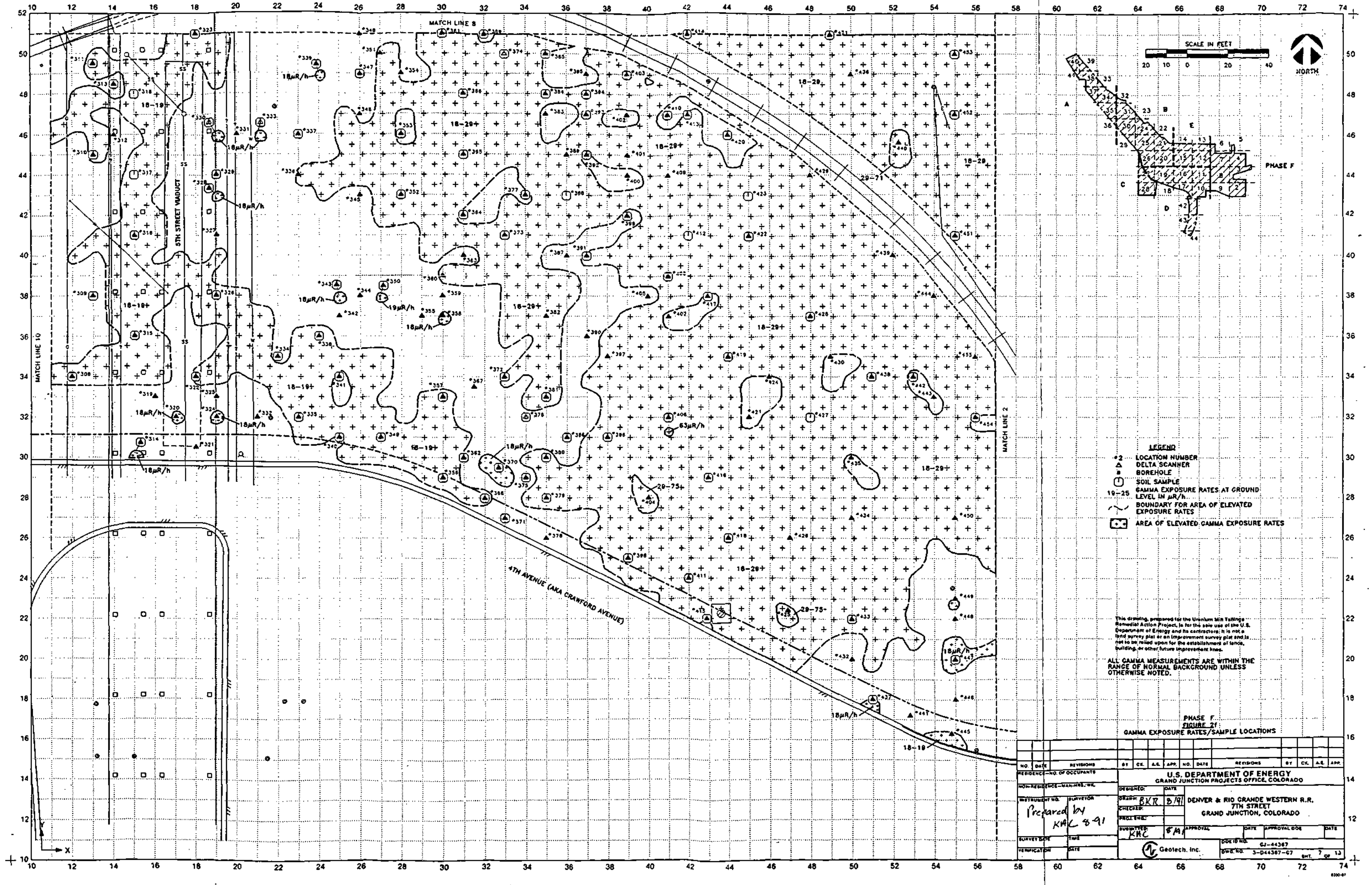
ALL GAMMA MEASUREMENTS ARE WITHIN THE RANGE OF NORMAL BACKGROUND UNLESS OTHERWISE NOTED.

PHASE F
FIGURE 2
GAMMA EXPOSURE RATES/SAMPLE LOCATIONS

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U.S. DEPARTMENT OF ENERGY GRAND JUNCTION PROJECTS OFFICE, COLORADO													
DESIGNED: [Signature] DATE: 8/9/11													
CHECKED: [Signature] DATE: 8/9/11													
SUBMITTED: [Signature] DATE: 8/9/11													
APPROVAL: [Signature] DATE: 8/9/11													
DOWNSIDE: 6J-44387													
DOWNSIDE: 3-D44387-G8													
SHEET 6 OF 13													

Prepared by KAC 8-9-11

Geotech, Inc.



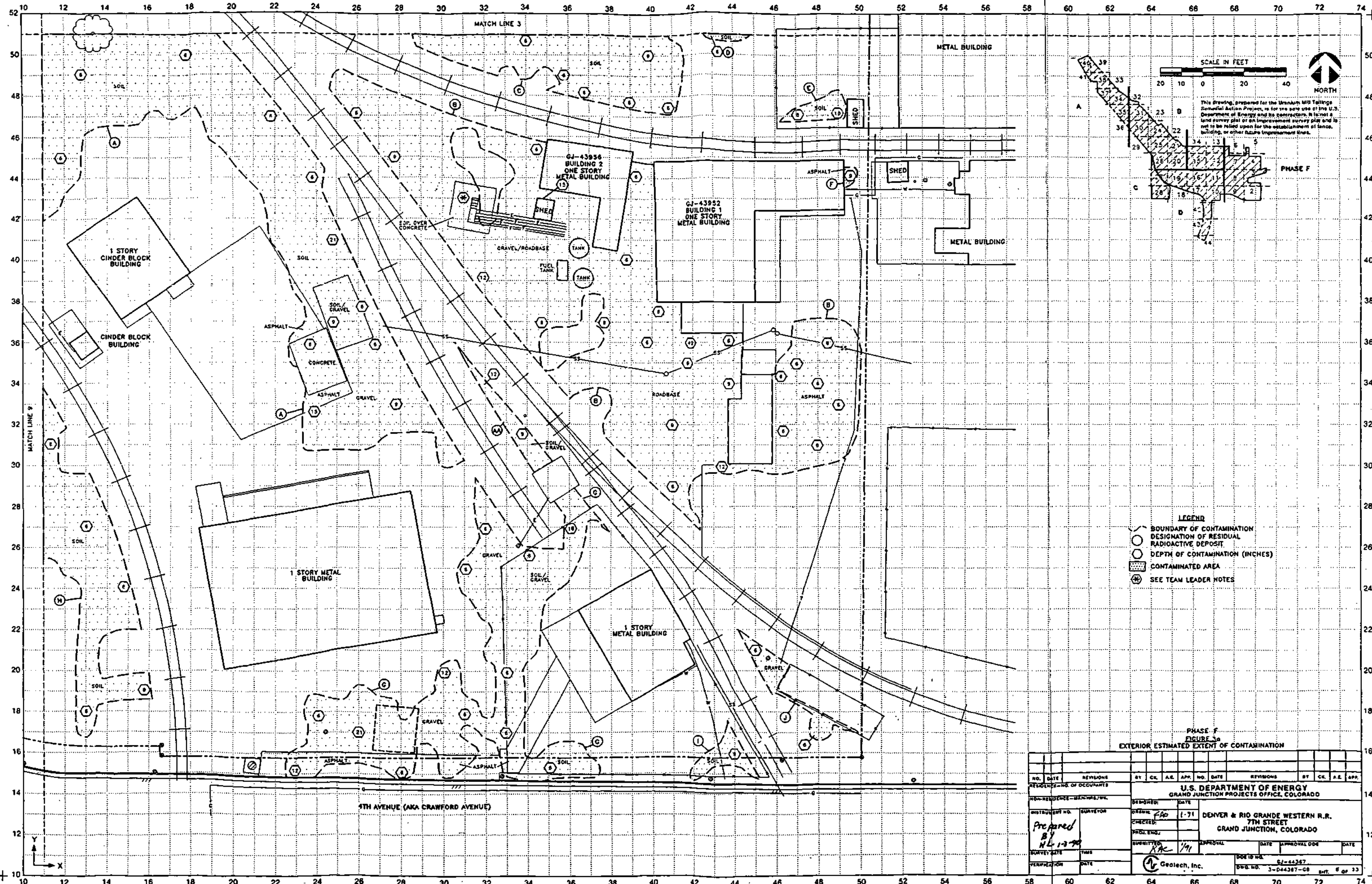
- LEGEND**
- LOCATION NUMBER
 - △ DELTA SCANNER
 - BOREHOLE
 - SOIL SAMPLE
 - 18-25 GAMMA EXPOSURE RATES AT GROUND LEVEL IN $\mu\text{R}/\text{h}$
 - BOUNDARY FOR AREA OF ELEVATED EXPOSURE RATES
 - ◻ AREA OF ELEVATED GAMMA EXPOSURE RATES

This drawing, prepared for the Uranium Mill Tailings Remedial Action Project, is for the use of the U.S. Department of Energy and its contractors; it is not a land survey plat or an improvement survey plat and is not to be relied upon for the establishment of fence, building, or other future improvement lines.

ALL GAMMA MEASUREMENTS ARE WITHIN THE RANGE OF NORMAL BACKGROUND UNLESS OTHERWISE NOTED.

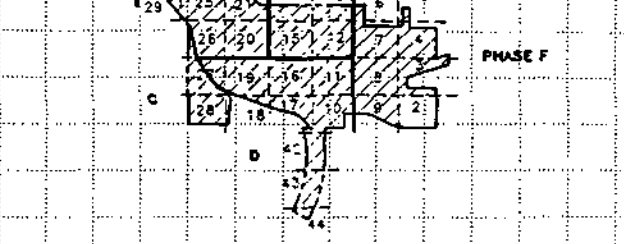
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FIGURE 21
GAMMA EXPOSURE RATES/SAMPLE LOCATIONS

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RESIDENCE—NO. OF OCCUPANTS																							
NON-RESIDENCE—MAN, WIFE, CHILDREN																							
INSTRUMENT NO. SURVEYOR																							
Prepared by KAL 8-91																							
SURVEY DATE																							
VERIFICATION DATE																							
DESIGNED: DATE																							
DRAWN: BKR 8/91																							
CHECKED: DATE																							
PLOTTER: DATE																							
SUBMITTED: KAC 8/91																							
APPROVAL: DATE																							
APPROVAL GOR: DATE																							
DATE																							
Geotech, Inc.																							
CODE NO. 62-44387																							
DWE NO. 5-044387-07																							
SMT. 7																							
QW 13																							



SCALE IN FEET
20 10 0 20 40
NORTH

This drawing, prepared for the Uranium Mill Tailings Remedial Action Project, is for the sole use of the U.S. Department of Energy and its contractors. It is not a land survey plat of an improvement survey plat and is not to be relied upon for the establishment of fence, building, or other future improvement lines.



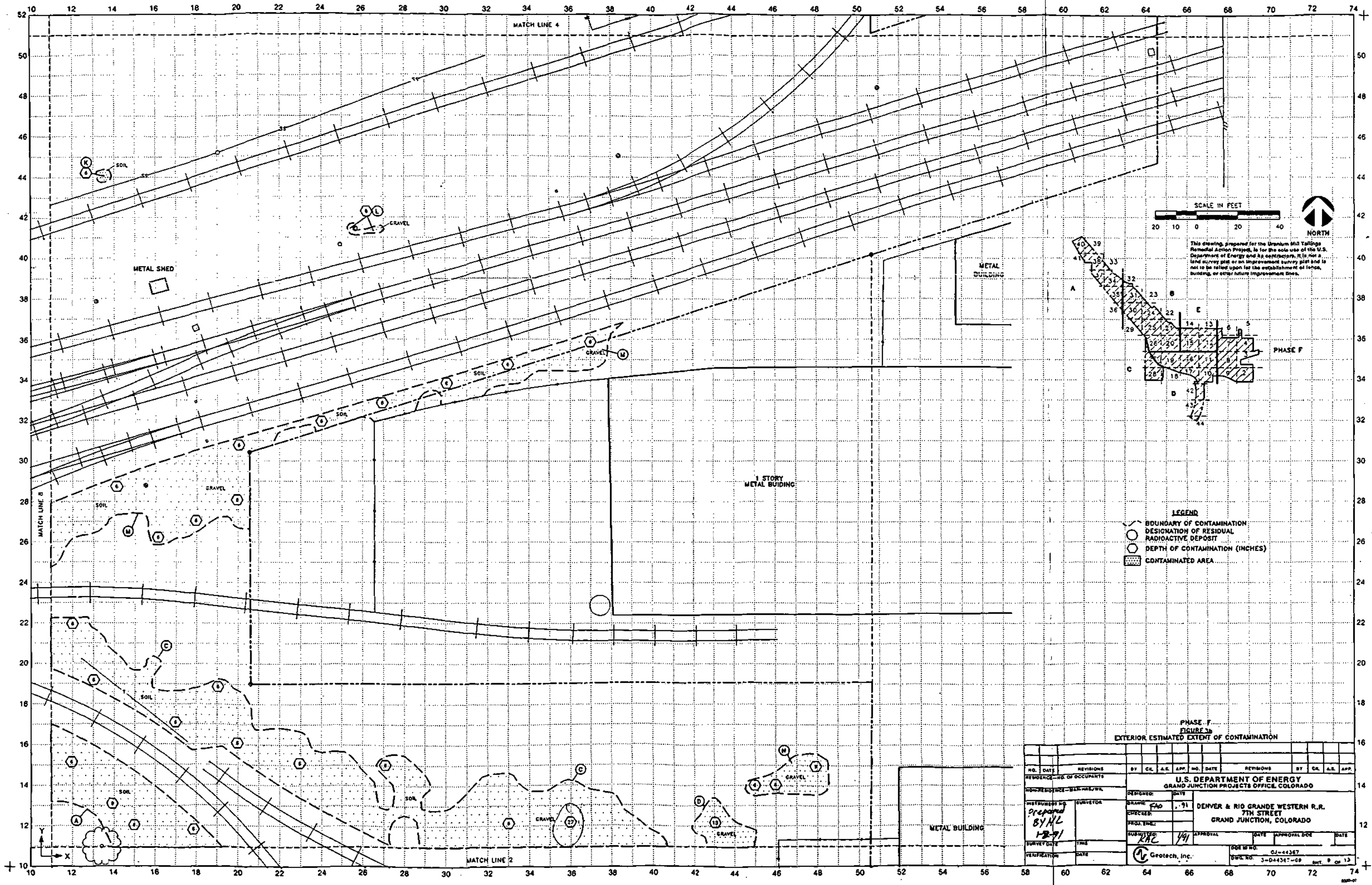
- LEGEND**
- BOUNDARY OF CONTAMINATION
 - DESIGNATION OF RESIDUAL RADIOACTIVE DEPOSIT
 - DEPTH OF CONTAMINATION (INCHES)
 - CONTAMINATED AREA
 - SEE TEAM LEADER NOTES

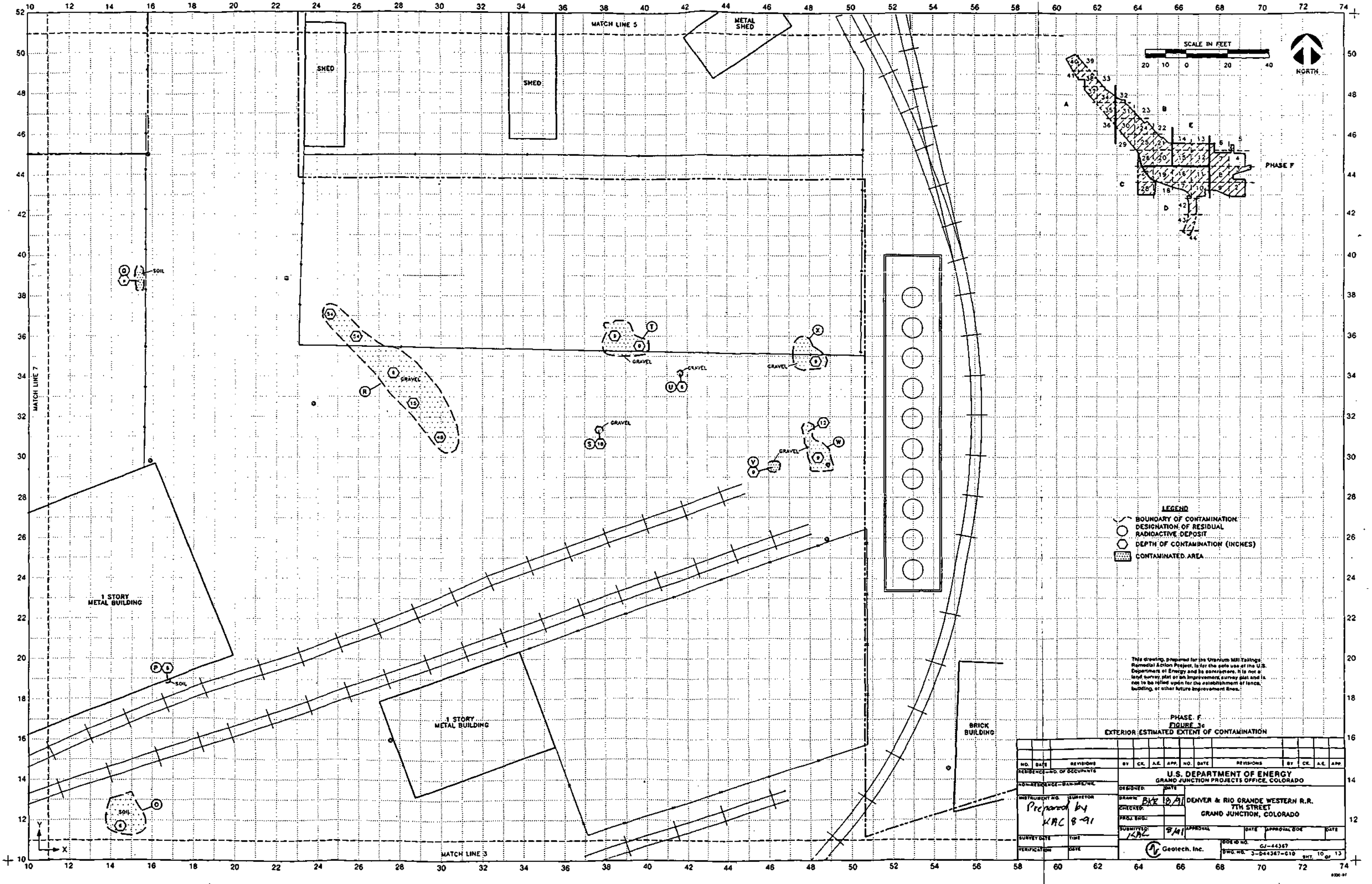
PHASE F
FIGURE 3a
EXTERIOR ESTIMATED EXTENT OF CONTAMINATION

NO.	DATE	REVISIONS	BY	CL	A.E.	APP.	NO.	DATE	REVISIONS	BY	CL	A.E.	APP.
U.S. DEPARTMENT OF ENERGY GRAND JUNCTION PROJECTS OFFICE, COLORADO													
DENVER & RIO GRANDE WESTERN R.R. 7TH STREET GRAND JUNCTION, COLORADO													
INSTRUMENT NO.		DATE		DRAWN: FAD		1-71		CHECKED:		DATE		APPROVAL	
SURVEY DATE		TIME		SUBMITTED: KAC		1/41		DATE		APPROVAL		DATE	
PERMISSION		DATE		Geotech, Inc.		3-D44387-G8		DATE		APPROVAL		DATE	

Prepared by H.L. 1-71

8 of 23



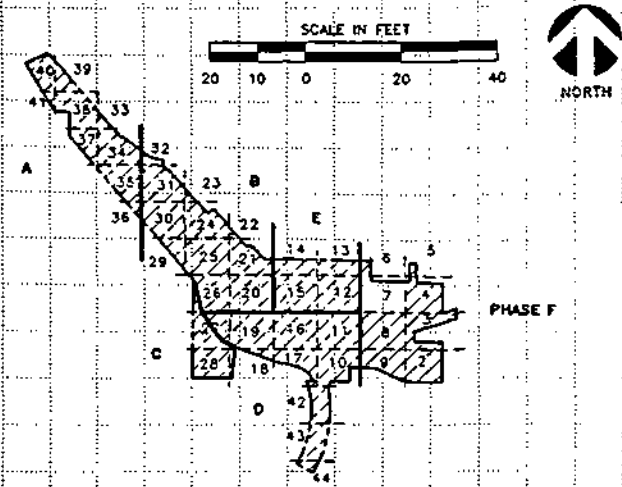
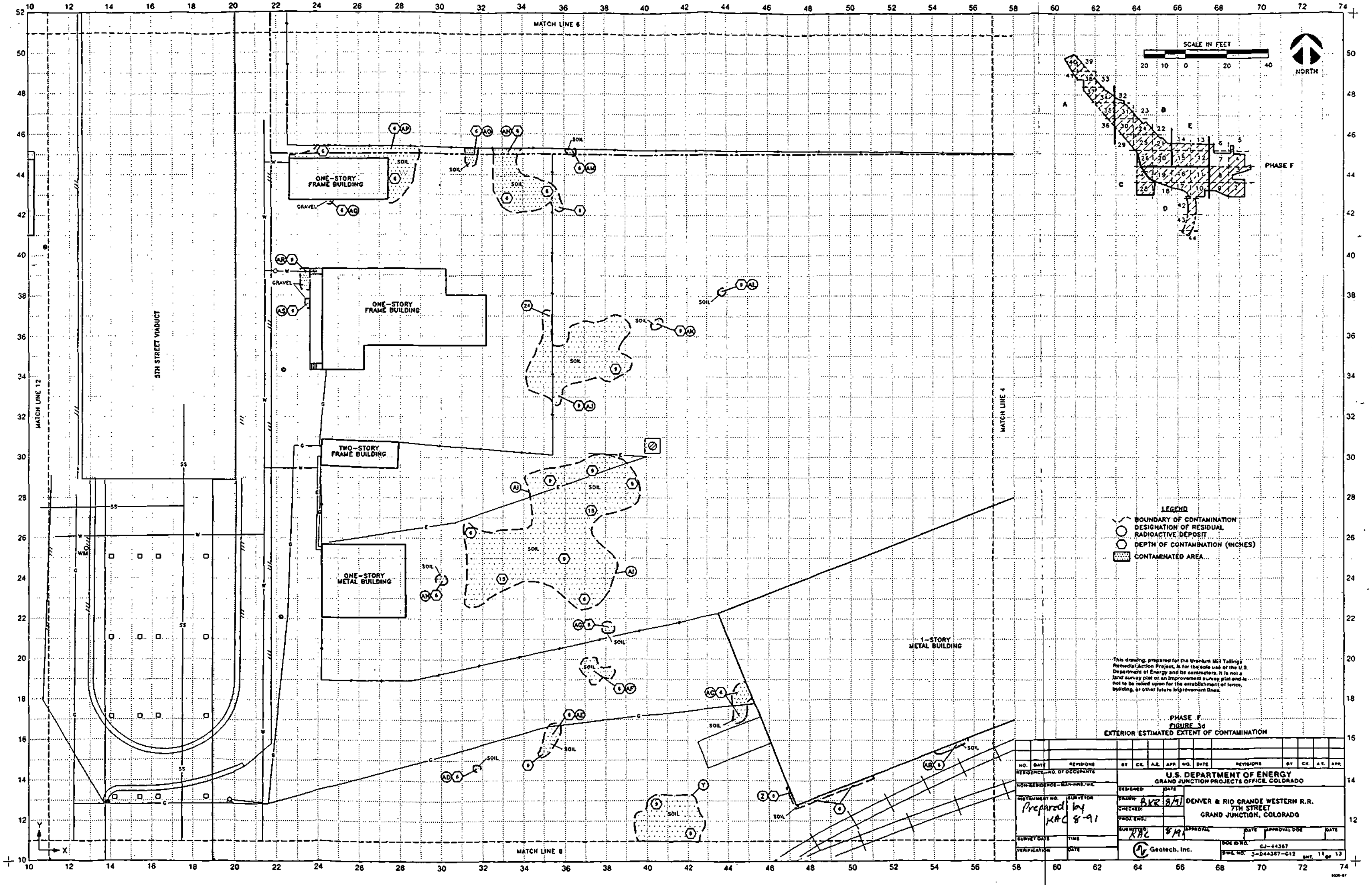


LEGEND
--- BOUNDARY OF CONTAMINATION
○ DESIGNATION OF RESIDUAL RADIOACTIVE DEPOSIT
○ DEPTH OF CONTAMINATION (INCHES)
■ CONTAMINATED AREA

This drawing, prepared for the Uranium Mill Tailings Remedial Action Project, is for the sole use of the U.S. Department of Energy and its successors. It is not a land survey plat or an improvement survey plat and is not to be relied upon for the establishment of fence, building, or other future improvement lines.

**PHASE F
FIGURE 36
EXTERIOR ESTIMATED EXTENT OF CONTAMINATION**

NO. DATE		REVISIONS		BY		CK.		A.E.		APP. NO. DATE		REVISIONS		BY		CK.		A.E.		APP.	
RESIDENCE—NO. OF OCCUPANTS																					
NON-RESIDENCE—BANK/RAIL/HC																					
DESIGNED: DATE										U.S. DEPARTMENT OF ENERGY GRAND JUNCTION PROJECTS OFFICE, COLORADO											
DRAWN: BKE 10/91										DENVER & RIO GRANDE WESTERN R.R. 7TH STREET GRAND JUNCTION, COLORADO											
CHECKED: DATE																					
SUBMITTED: KAC 8/91										APPROVAL DATE											
SURVEY DATE										DATE											
PERFORMANCE										DATE											
Geotech, Inc.										GJ-44367 DWS. NO. 3-544367-010 SHEET 10 OF 13											

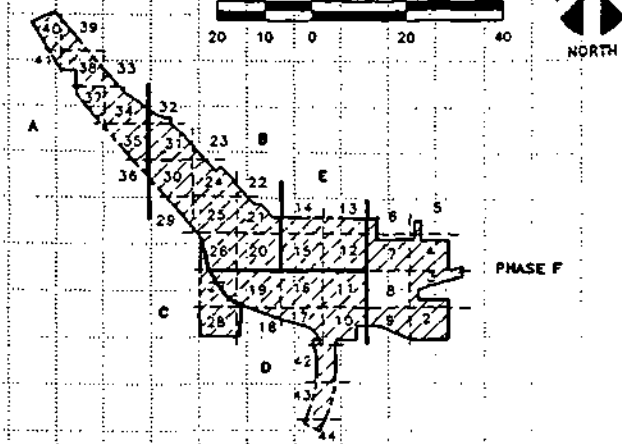
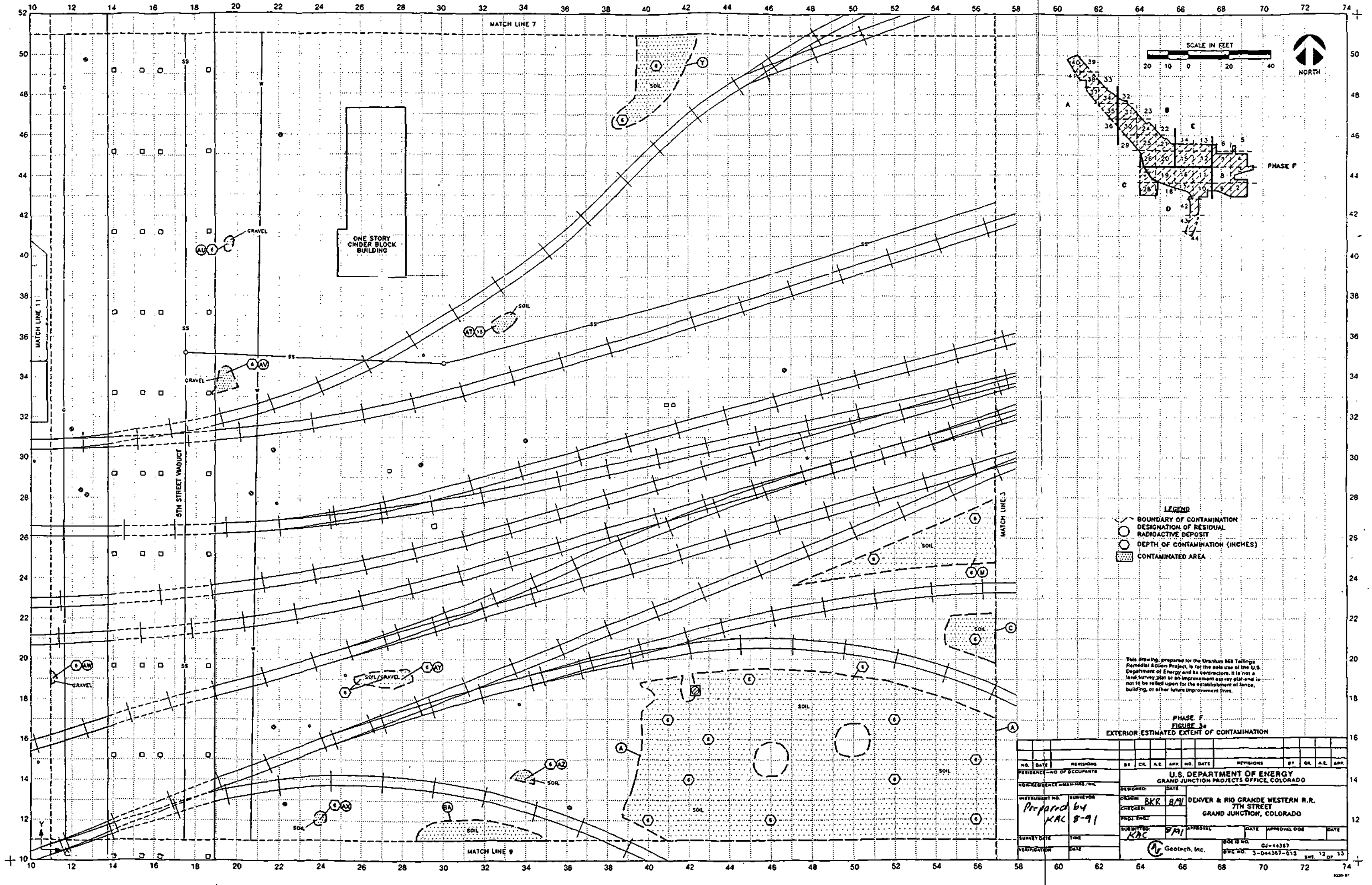


- LEGEND**
- BOUNDARY OF CONTAMINATION
 - DESIGNATION OF RESIDUAL RADIOACTIVE DEPOSIT
 - DEPTH OF CONTAMINATION (INCHES)
 - CONTAMINATED AREA

This drawing, prepared for the Hanford Site Tailings Remedial Action Project, is for the use of the U.S. Department of Energy and its contractors. It is not a survey plot or an improvement survey plot and is not to be relied upon for the establishment of fence, building, or other future improvement lines.

PHASE F
FIGURE 3d
EXTERIOR ESTIMATED EXTENT OF CONTAMINATION

NO. DATE		REVISIONS		BY	DATE	REVISIONS		BY	DATE
REFERENCE NO. OF OCCUPANTS		U.S. DEPARTMENT OF ENERGY GRAND JUNCTION PROJECTS OFFICE, COLORADO							
NON-RESIDENCE - MAN-MADE W.E.		DESIGNED: DATE		DRAWN: BKR 8/91					
NOTED: PREPARED BY KAC 8-91		CHECKED: DATE		DENVER & RIO GRANDE WESTERN R.R. 7TH STREET GRAND JUNCTION, COLORADO					
SURVEY DATE		TIME		SUBMITTED: KAC 8/91		APPROVAL: DATE		APPROVAL: DATE	
VERIFICATION		DATE		Geotech, Inc.		BOX NO. 44387		SHEET 11 OF 13	

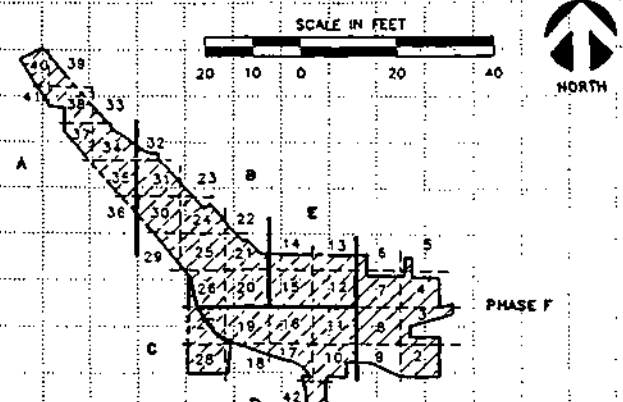
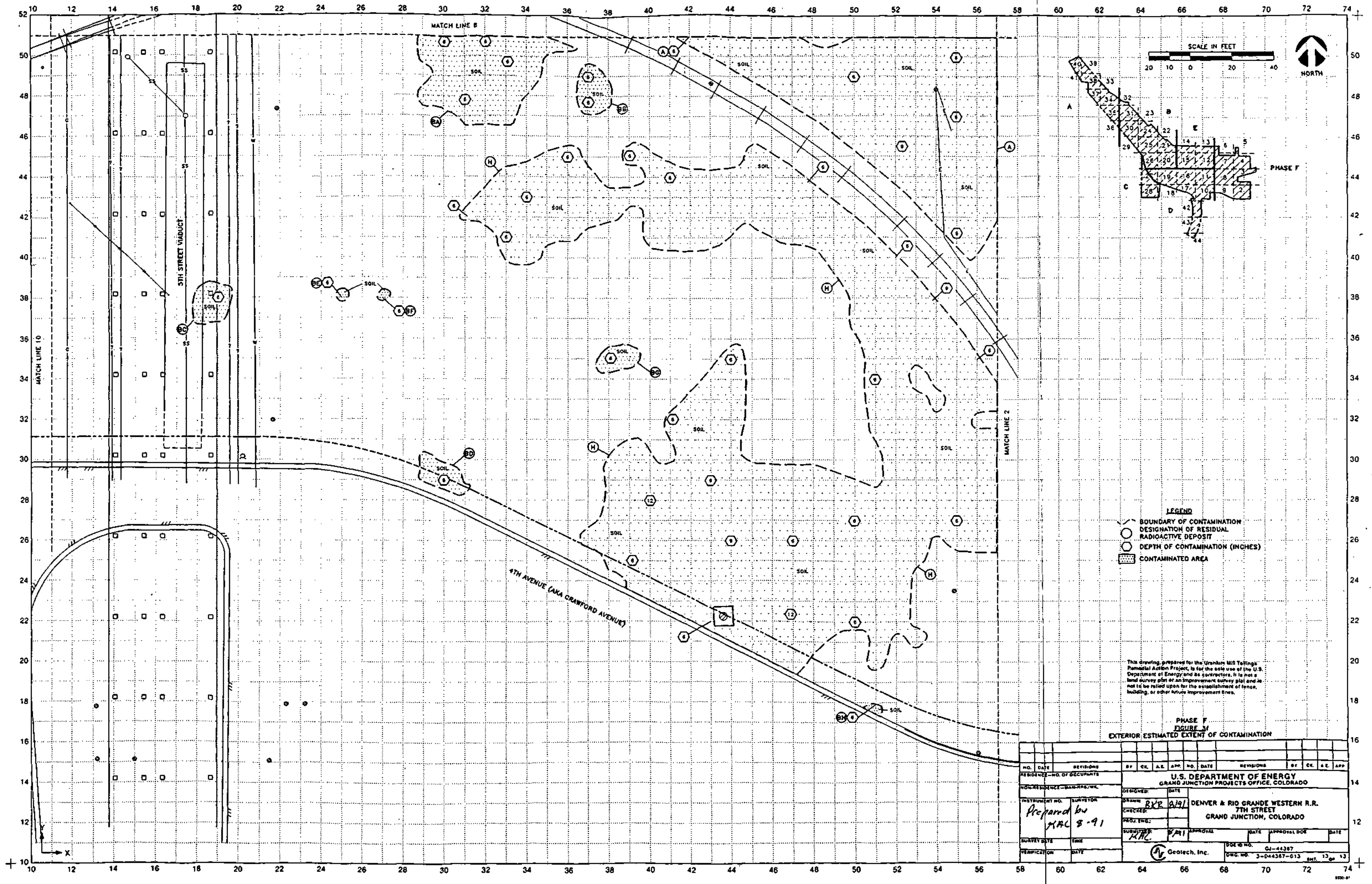


- LEGEND**
- BOUNDARY OF CONTAMINATION
 - DESIGNATION OF RESIDUAL RADIOACTIVE DEPOSIT
 - DEPTH OF CONTAMINATION (INCHES)
 - CONTAMINATED AREA

This drawing, prepared for the Uranium Mill Tailings Remedial Action Project, is for the sole use of the U.S. Department of Energy and its contractors. It is not a land survey plot or an improvement survey plot and is not to be relied upon for the establishment of fence, building, or other future improvement lines.

PHASE F
FIGURE 3a
EXTERIOR ESTIMATED EXTENT OF CONTAMINATION

NO. DATE		REVISIONS		BY	CK	A.E.	APP.	NO.	DATE	REVISIONS		BY	CK	A.E.	APP.
U.S. DEPARTMENT OF ENERGY GRAND JUNCTION PROJECTS OFFICE, COLORADO															
INSTRUMENT NO.		SURVEYOR		DESIGNED:		DATE		DENVER & RIO GRANDE WESTERN R.R. 7TH STREET GRAND JUNCTION, COLORADO							
PREPARED BY		KAC 8-91		CHECKED:		BKR 8-91		APPROVAL DATE							
SURVEY DATE		TIME		SUBMITTED:		KAC		DATE		APPROVAL DATE		DATE		DATE	
VERIFICATION		DATE		Geotech, Inc.		BOL 10 NO.		GJ-44387		SWE NO.		3-D44367-G12		SHT 12 OF 13	



- LEGEND**
- BOUNDARY OF CONTAMINATION
 - DESIGNATION OF RESIDUAL RADIOACTIVE DEPOSIT
 - DEPTH OF CONTAMINATION (INCHES)
 - CONTAMINATED AREA

This drawing, prepared for the Uranium Mill Tailings Remedial Action Project, is for the sole use of the U.S. Department of Energy and its contractors. It is not a land survey plan or an improvement survey plan and is not to be relied upon for the establishment of fence, building, or other future improvement lines.

**PHASE F
FIGURE 31
EXTERIOR ESTIMATED EXTENT OF CONTAMINATION**

NO. DATE		REVISIONS		BY		CK		A.E.		APP.		NO.		DATE		REVISIONS		BY		CK		A.E.		APP.	
RESOURCES—NO. OF OCCUPANTS																									
HOUSEHOLD—BAGGERS/WE																									
INSTRUMENT NO.		SURVEYOR		DATE		DRAWN		BY		DATE		CHECKED		BY		DATE		SUBMITTED		DATE		APPROVAL		DATE	
Prepared by		MAL 8-91				RJR		8/91										DENVER & RIO GRANDE WESTERN R.R.							
SURVEY DATE		TIME																GRAND JUNCTION, COLORADO							
VERIFICATION		DATE																							
U.S. DEPARTMENT OF ENERGY GRAND JUNCTION PROJECTS OFFICE, COLORADO Geotech, Inc.																									
DOE ID NO. GJ-44387 DGC NO. 3-044387-013																									